TECHNICAL DATA SHEET

Talc Powder - White Colored

Revised: 04/27/2026

PRODUCT IDENTIFICATION

Product Name: Talc Powder - White Colored
CAS Number: 14807-96-6
Molecular Formula: $H_2Mg_3O_{12}Si_4$
Molecular Weight: 379.27 g/mol
Grade: Technical
Purity / Concentration: Not Available
Synonyms: Talcum Powder, Magnesium Silicate

PRODUCT OVERVIEW

Our Technical Grade Talc Powder is a high-purity, fine-textured magnesium silicate offering exceptional whiteness at 92.5%. With a consistent particle size of 8.5 µm and a 99.2% assay, it serves as a reliable performance filler and lubricant across diverse industrial applications.

Grade Significance: Technical grade signifies that the product is manufactured for industrial performance and consistency rather than pharmaceutical or food-grade standards, making it the cost-effective choice for manufacturing and processing applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.2	98	—	Titration
Heavy Metals (as Pb)	ppm	5	—	10	ICP-OES
Iron (Fe)	ppm	10	—	50	ICP-OES
Acid Soluble Substances	%	0.05	—	0.1	USP <2031>
Loss On Drying	%	0.2	—	0.5	ASTM D280
Particle Size D50	µm	8.5	5	12	Laser Diffraction
Whiteness	%	92.5	90	—	ASTM E313

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Fine powder, soft texture	**Odor**	Odorless
Form	Fine powder	**Boiling Point**	1744°C (3171.2°F)
Melting / Freezing Point	1500°C (2732°F)	**Specific Gravity**	2.75
Solubility	Water insoluble	**Molecular Formula**	$H_2Mg_3O_{12}Si_4$
Molecular Weight	379.27 g/mol	**Density (25°C)**	2.7 g/mL

APPLICATIONS

1. **Plastics** — Used as a functional filler to enhance mechanical strength and stiffness while effectively reducing overall production costs.
2. **Cosmetics** — Utilized for its superior absorbent properties and soft texture to improve the feel and consistency of personal care formulations.
3. **Paper Manufacturing** — Acts as a high-quality coating pigment to significantly improve paper brightness, smoothness, and opacity.
4. **Rubber Processing** — Functions as an essential lubricant during manufacturing to enhance material flow and minimize friction between components.

STORAGE & HANDLING

Talc powder should be stored in a cool, dry, and well-ventilated area to prevent moisture absorption, which can lead to clumping and reduced performance. Maintaining a tightly sealed container is essential to prevent airborne dust contamination and ensure the integrity of the fine particle size.

- Store in a cool, dry place away from moisture and direct sunlight.
- Use appropriate PPE, including gloves and dust masks, when handling.
- Ensure containers are tightly sealed to prevent contamination.
- Compatible with HDPE and glass containers; avoid metal containers.

AVAILABLE PACKAGING

- 2 lbs.
- 5 Lbs.
- 50 Lbs.

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Warning

No GHS pictograms assigned.

Hazard Statements:

- Not Classified
- Reported as not meeting GHS hazard criteria by 4523 of 4758 companies (only 4.9% companies provided GHS information). For more detailed information, please visit ECHA C&L website.

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com